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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/802,678	03/09/2001	Neil McLellan	50626.17	6363	
7590 08/25/2004			EXAMINER		
Joseph R. Kea		TRAN, MINH LOAN			
Keating & Ben	nett LLP				
Suite 312		ART UNIT	PAPER NUMBER		
10400 Eaton P	lace	2826			
Fairfax, VA	22030		DATE MAILED: 08/25/2004	DATE MAILED: 08/25/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/802,678	MCLELLAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Minh-Loan T. Tran	2826				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory perior  - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days d will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 25	September 2003.					
	nis action is non-final.					
Disposition of Claims						
<ul> <li>4)  Claim(s) 1-20 is/are pending in the application.</li> <li>4a) Of the above claim(s) 1-8 is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 9-20 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>						
Application Papers						
9) The specification is objected to by the Examination The drawing(s) filed on <a href="#">99 March 2001</a> is/are:  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examination is objected to be added to be add	: a) $\square$ accepted or b) $\boxtimes$ objected to e drawing(s) be held in abeyance. See ection is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ite				
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>6/8/01,2/5/04</u>.</li> </ol>	5) Notice of Informal P	atent Application (PTO-152)				

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## **DETAILED ACTION**

## Election/Restrictions

1. Applicant's election without traverse of Group II, claims 9-20 in the reply filed on 09/25/2003 is acknowledged.

#### Information Disclosure Statement

2. The information disclosure statements filed on 06/08/2001 and 02/05/2004 have been considered.

#### Oath/Declaration

3. The oath or declaration filed on 03/09/2001 is acceptable.

## Drawings

- 4. Figures 1A-5J should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).
- 5. The drawings are objected to because figures 6A-6H, 7-9 are not clear so that the reference numerals cannot be read. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as " amended." If a drawing figure is to be canceled, the appropriate figure must be

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removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

# Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 9-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 9, line 8, "expect one exposed surface" is unclear as to whether it is being referred to the - except one exposed surface--.

In claim 9, line 8, " all" is unclear as to whether it is being referred to the die pad, the contact pads, the power/ground ring and the wire bonds.

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In claim 20, lines 1 and 2, respectively, "the etched strip" and "the external metal surfaces" lack of antecedent basis.

# Double Patenting

7. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 9-20 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-13 of U.S. Patent No. 6,635,957. Although the conflicting claims are not identical, they are not patentably distinct from each other because both of the claimed inventions recite a leadless plastic chip carrier comprising a semiconductor die mounted to a die pad, at least one row of contact pads circumscribing the die pad, a power/ground ring intermediate the at least one row of contact pads and the die pad, a plurality of wire bonds connecting various ones of the semiconductor die, the power/ground ring and the row of the contact pads, and an overmold covering the semiconductor die, the die pad, the contact pads, the power/ground ring and the wire bonds, except one exposed surface of the row of contact pads and the die pad.

The claims of the present application does not recite the die pad is a plurality of die attached pads. However, it would have been obvious to one of ordinary skill in the art to form the die pad of the present application is a plurality of die attached pads in order to release the heat generated from the semiconductor die.

#### Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Loan T. Tran whose telephone number is (571)

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272-1922. The examiner can normally be reached on Monday-Friday 9:00 AM-5:30

PM.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Nathan J. Flynn can be reached on (571) 272-1915. The fax

phone number for the organization where this application or proceeding is assigned is

703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Mlt

Minh-Loan T. Tran

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**Primary Examiner** 

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